

ABSTRACT

Abstract

An interferometric measuring device ~~(1)~~ for detecting the shape of rough surfaces is described. ^A ~~A~~ spatially coherent beam gun unit ^{is} ~~being~~ provided, ^{that} ~~which~~ emits a short time coherent and broad-band beam. ^{the} ~~the~~ device ^{is} ~~being~~ separated into a section containing the components of a modulation interferometer ~~(2)~~ and the components of a measuring probe ^{The} ~~(3)~~ ^{is} ~~being~~ coupled to the modulation interferometer ~~(2)~~ via an optical fiber arrangement ^{and} ~~(6)~~ ^{is} ~~being~~ used remotely from the modulation interferometer ⁽²⁾ ~~(Figure)~~.